

## AMENDMENTS TO THE CLAIMS

**Claim 1 (Cancelled)**

**Claim 2 (Cancelled)**

**Claim 3 (Currently Amended)** A communication system as defined in Claim 1, wherein comprising (i) a plurality of communication terminals, each communication terminal having a relay function, and (ii) a host having a relay function and a route control function, wherein: during a route search, a communication terminal of said plurality of communication terminals adds an ID of a self-terminal to a route search packet and broadcasts the route search packet over an area where communication is possible; on receipt of a route search packet, said communication terminal of said plurality of communication terminals adds the ID of the self-terminal to the received route search packet if the ID of the self-terminal has not been added to the received route search packet, and broadcasts the received route search packet over the area where communication is possible; said host obtains information of a route up to said communication terminal on a basis of the received route search packet, and notifies said communication terminal of the obtained route information; during data communication, said communication terminal creates route information data on the basis of an ID of a destination terminal and IDs of relay terminals located between the self-terminal and the said host, and adds the route information data to a data packet, and transmits to transmit the data packet to the said host;

on receipt of a data packet, said communication terminal transfers the received data packet on-the a basis of the route information data of the received data packet when a destination terminal of the received data packet is not the self terminal; and

    said host creates route information data between itself and the destination terminal on-the a basis of the route information data of the received data packet when the destination terminal of the received data packet is not the self-terminal, adds an ID of the destination terminal ID and the created route information data to the received data packet, and transfers transfer the received data packet to the destination terminal.

#### **Claims 4-10 (Cancelled)**

**Claim 11 (Currently Amended)**    A communication system as defined in Claim 1, wherein comprising (i) a plurality of communication terminals, each communication terminal having a relay function, and (ii) a host having a relay function and a route control function, wherein:

    during a route search, a communication terminal of said plurality of communication terminals adds an ID of a self-terminal to a route search packet and broadcasts the route search packet over an area where communication is possible;

    on receipt of a route search packet, said communication terminal of said plurality of communication terminals adds the ID of the self-terminal to the received route search packet if the ID of the self-terminal has not been added to the received route search packet, and broadcasts the received route search packet over the area where communication is possible;

    said host obtains information of a route up to said communication terminal on a basis of

the received route search packet, and notifies said communication terminal of the obtained route information;

    said host creates pattern information of a route having a specific communication terminal as a relay terminal on-the-a basis of the route information obtained during the route search, and notifies each communication terminal of the created pattern information at an arbitrary timing or periodically;

    on receipt of a data packet, said host transfers the received data packet on-the-a basis of the pattern information of the received data packet when the-a destination terminal of the received data packet is not the self-terminal;

    said communication terminal adds, to-a the received data packet, pattern information of a route up to an arbitrary communication terminal, and transmits the received data packet having the pattern information of the route up to the arbitrary communication terminal added thereto;  
and

    on receipt of a the data packet, said communication terminal transfers the received data packet on-the-a basis of the pattern information of the received data packet when the destination terminal of the data packet is not the self-terminal.

#### **Claims 12-21 (Cancelled)**